

Abstract of the disclosure:

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There are disclosed a coated cemented carbide excellent in peel strength which comprises a cemented carbide base metal comprising a hard phase containing tungsten carbide and a binder phase, and a hard film being provided on a surface of the base metal with a single layer or two or more laminated layers, wherein (1) at least part of the surface of the base metal is subjected to machining, and (2) (i) substantially no crack is present in particles of the hard phase existing at an interface of the surface of the base metal subjected to machining and the hard film and/or (2) (ii) peak intensities of crystal surfaces satisfy

$$hs(001)_{wc}/hs(101)_{wc} \geq 1.1 \times hi(001)_{wc}/hi(101)_{wc}$$

wherein $hs(001)_{wc}$ and $hs(101)_{wc}$ each represent a peak intensity of (001) crystal face and that of (101) crystal face at the surface of the base metal subjected to machining processing, respectively, and $hi(001)_{wc}$ and $hi(101)_{wc}$ each represent a peak intensity of (001) crystal face and that of (101) crystal face in the base metal, respectively.

and a process for preparing the same.

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